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**1** [Tools and approaches for developing data-intensive Web applications: a survey](#)

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(524.80\)](#) Additional Information: [full citation](#), [abs](#), [citations](#), [index terms](#)

The exponential growth and capillary diffusion of the Web are nurturing a new generation of Web applications, characterized by a direct business-to-customer relationship. Such applications are a hybrid between traditional IS development and Hypermedia development. This survey investigates the existing tools and approaches for software production of such applications and challenges the existing tools and approaches for software production of such applications. It also investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characterizing the main trends and issues in this field.

**Keywords:** HTML, Intranet, WWW, application, development

**2** [Declarative specification of Web sites with SAWSDL](#)

Mary Fernández, Daniela Florescu, Alon Levy, Dan Suciu

March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available: [pdf\(188.65 KB\)](#) Additional Information: [full citation](#), [abs terms](#)

S is a system for implementing *data-intensive* Web sites, which typically come from multiple data sources and have complex structure. S's key idea is separating management of a Web site's data, the specification of its content and structure, and the representation of its pages. S provides a declarative *query language* for specifying content and structure, and a simple *template language* for specifying a site's representation. This paper ...

**Keywords:** Declarative query languages, Web-site management

**3 Enabling dynamic content caching for database-driven web sites**

◆ K. Selçuk Candan, Wen-Syan Li, Qiong Luo, Wang-Pin Hsiung, Divyakanur Srivastava  
May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD conference on Management of data SIGMOD '01**, Volume 3

**Publisher:** ACM Press

Full text available: [pdf\(319.67 KB\)](#) Additional Information: [full citation](#), [abs](#) [citations](#), [index terms](#)

Web performance is a key differentiation among content providers. Snafu and major web sites demonstrate the difficulty that companies face trying to manage the flow of web traffic. One solution to this problem is to store web content at servers and caches for fast delivery to the end users. However, for many e-commerce sites created dynamically based on the current state of business processes, replying to servers and *databases*

**Keywords:** JDBC, application server, database driven web site, dynamic invalidation, web acceleration

**4 Fast detection of communication patterns in distributed executions**

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for A Collaborative research**

**Publisher:** IBM Press

Full text available: [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abs](#) [index terms](#)

Understanding distributed applications is a tedious and difficult task. Vis process-time diagrams are often used to obtain a better understanding of application. The visualization tool we use is Poet, an event tracer developed at Waterloo. However, these diagrams are often very complex and do not provide the desired overview of the application. In our experience, such tools do not capture occurrences of non-trivial communication patterns ...

## 5 A dynamic view-oriented group communication service

◆ Roberto De Prisco, Alan Fekete, Nancy Lynch, Alex Shvartsman

June 1998 **Proceedings of the seventeenth annual ACM symposium on distributed computing**

**Publisher:** ACM Press

Full text available:  [pdf\(3.91 MB\)](#)

Additional Information: [full citation, abs](#)  
[citations, index terms](#)

## 6 Declarative specification of data-intensive Web sites

◆ Mary Fernández, Dan Suciu, Igor Tatarinov

December 1999 **ACM SIGPLAN Notices , Proceedings of the 2nd conference on specific languages PLAN '99**, Volume 35 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(1.06 MB\)](#)

Additional Information: [full citation, abs](#)  
[citations, index terms](#)

Integrated information systems are often realized as data-intensive Web sites, combining data from multiple data sources. We present a system, called STRUDEL, for generating data-intensive Web sites. STRUDEL separates the tasks of acquiring data from data sources, integrating data, building its structure, and generating its pages. STRUDEL's declarative query language, called StruQL, supports the first class of ad hoc database queries ...

## 7 Programming languages for mobile code

◆ Tommy Thorn

September 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(393.65 KB\)](#)

Additional Information: [full citation, abs](#)  
[citations, index terms](#)

Sun's announcement of the programming language Java more than anythin  
notion of mobile code, that is, programs traveling on a heterogeneous net  
automatically executing upon arrival at the destination. We describe seve  
code and extract their common characteristics, where security proves to l  
concerns. With these characteristics as reference points, we examine six  
languages proposed for mobile code. The conclusion ...

**Keywords:** Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, :  
mobile code, network programming, object orientation, portability, safet

## 8 Model-driven development of Web applications: the AutoWeb system

 Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Vol

**Publisher:** ACM Press

Full text available:  [pdf\(6.94 MB\)](#) Additional Information: [full citation](#), [abs](#) [citations](#), [index](#) [text](#)

This paper describes a methodology for the development of WWW appli  
environment specifically tailored for the methodology. The methodology  
environment are based upon models and techniques already used in the h  
information systems, and software engineering fields, adapted and blend  
The foundation of the proposal is the conceptual design of WWW applic  
lite, a notation for the specification of structure, nav ...

**Keywords:** HTML, WWW, application, development, intranet, modelin

## 9 Process migration

 September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3

**Publisher:** ACM Press

Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abs](#) [citations](#), [index](#) [text](#)

Process migration is the act of transferring a process between two machin  
dynamic load distribution, fault resilience, eased system administration, :  
locality. Despite these goals and ongoing research efforts, migration has  
widespread use. With the increasing deployment of distributed systems i  
distributed operating systems in particular, process migration is again rec

in both research and product development. As hi ...

**Keywords:** distributed operating systems, distributed systems, load distr migration

**10 WebViews: accessing personalized web content and services**

✉ Juliana Freire, Bharat Kumar, Daniel Lieuwen

April 2001 **Proceedings of the 10th international conference on World**

**Publisher:** ACM Press

Full text available:  [pdf\(305.83 KB\)](#) Additional Information: [full citation, ref terms](#)

**Keywords:** Web clipping, content transcoding, dynamic content, electro information delivery, personalization, smart bookmarks, voice interfaces

**11 Web Servers and Dynamic Content**

Dan Teodor

February 2001 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(19.98 KB\)](#) Additional Information: [full citation, abs](#)

Using legacy languages like C and Fortran can aid computationally com

**12 Evaluating the reverse engineering capabilities of Web tools for understanding site content and structure: a case study**

Scott Tilley, Shihong Huang

July 2001 **Proceedings of the 23rd International Conference on Software Tools for Web Engineering**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(360.47 KB\)](#)  Additional Information: [full citation, abs](#) [citations, index terms](#) [Publisher Site](#)

*This paper describes an evaluation of the reverse engineering capabilities of Web tools for understanding site content and structure. The evaluation is based on*

*into three classes (static, interactive, and dynamic), and is structured using engineering environment framework (REEF). This case study also represents evaluation of the applicability of the REEF in the related but qualitatively Web sites. The case stu ...*

**13 Catching the boat with Strudel: experiences with a Web-site management system**

◆ Mary Fernández, Daniela Florescu, Jaewoo Kang, Alon Levy, Dan Suciu  
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIG conference on Management of data SIGMOD '98**, Volume 2

**Publisher:** ACM Press

Full text available:  [pdf\(1.81 MB\)](#) Additional Information: [full citation](#), [abs](#), [citations](#), [index](#)

The Strudel system applies concepts from database management systems to building Web sites. Strudel's key idea is separating the management of the creation and management of the site's structure, and the visual presentation. First, the site builder creates a uniform model of all data available at the site. The builder uses this model to declaratively define the Web site's structure by "definition query" ...

**14 InfoSleuth: agent-based semantic integration of information in open and dynamic environments**

◆ R. J. Bayardo, W. Bohrer, R. Brice, A. Cichocki, J. Fowler, A. Helal, V. K. Martin, M. Nodine, M. Rashid, M. Rusinkiewicz, R. Shea, C. Unnikrishnan  
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIG conference on Management of data SIGMOD '97**, Volume 2

**Publisher:** ACM Press

Full text available:  [pdf\(1.69 MB\)](#) Additional Information: [full citation](#), [abs](#), [citations](#), [index](#)

The goal of the InfoSleuth project at MCC is to exploit and synthesize new technologies to build a unified system that retrieves and processes information in an ever-changing environment from many information sources. InfoSleuth has its roots in the Carnot project at MCC, which focused on integrating heterogeneous information bases. However, recent emerging technologies such as internetworking and the World Wide Web have significantly expanded the scope of the availability, and volume of data available to a ...

**15 Activeweb: XML-based active rules for web view derivations and access control**

Hidenari Kiyomitsu, Atsunori Takeuchi, Katsumi Tanaka

January 2001 **Australian Computer Science Communications , Proceed on Information technology for virtual enterprises ITVE ' the workshop on Information technology for virtual ente**  
Volume 23 Issue 6

**Publisher:** IEEE Computer Society , IEEE Computer Society , IEEE Com

Full text available: [pdf\(905.05](#)

[KB\)](#)

Additional Information: [full citation](#), [abs](#)  
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In this paper, we propose an idea of using XML-based active rules for defining access control by user access behaviors. The major objective method is to reflect author(creator)'s intention about his/her Web data and our *ActiveWeb*, the view of a Web page including its hyperlinks is changing user's browsing situation including access history or the aggregated information of access histories.In ...

**Keywords:** ECA rules, XML, activeweb, internet application, spatio-temporal personalization, web views

## 16 Geospatial mapping and navigation of the web

◆ Kevin S. McCurley

April 2001 **Proceedings of the 10th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available: [pdf\(1.06](#)

[MB\)](#)

Additional Information: [full citation](#), [refere](#)  
[terms](#)

**Keywords:** browsers, geographic information systems, geospatial information, navigation

## 17 Engineering flexible World Wide Web services

◆ Markus W. Schranz

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**

**Publisher:** ACM Press

Full text available: [pdf\(709.22](#)

Additional Information: [full citation](#), [refere](#)

KB)terms

**Keywords:** WWW service engineering, Web service management, flexil

**18 Alternatives for Dynamic Web Development Projects**

Dennis Gesker

March 2001 **Linux Journal**

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(20.43\)](#) Additional Information: [full citation](#), [abs](#)  
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Dennis provides a starting point for developers seeking solutions for their development requirements.

**19 A scalable and highly available system for serving dynamic data at frequent intervals**

Jim Challenger, Paul Dantzig, Arun Iyengar

November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(195.17\)](#) Additional Information: [full citation](#), [abs](#)  
[KB\)](#) [citations](#)

This paper describes the system and key techniques used for achieving high availability at the official Web site for the 1998 Olympic Winter Games. The most popular Web sites for the duration of the Olympic Games. The Web SP2 systems scattered around the globe containing a total of 143 processes. The Web site was that the data being presented to clients was constantly updated as new results were entered into the system ...

**20 Enabling full service surrogates using the portable channel representation**

 Micah Beck, Terry Moore, Leif Abrahamsson, Christophe Achouiantz, Pat

April 2001 **Proceedings of the 10th international conference on World Wide Web**

**Publisher:** ACM Press

Full text available:  [pdf\(282.92\)](#) Additional Information: [full citation](#), [ref](#)  
[KB\)](#)

**Keywords:** content distribution, dynamic content, mirroring, portability, web server

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